

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In the application of:

Masayuki TSUTSUMI et al.

Serial No.: 10/584,398

Filing Date: July 5, 2007

For: POLYIMIDE FILM

Examiner: Shane Fang

Group Art Unit: 1796

Confirmation No. 9225

**RESPONSE TO NOTIFICATION OF
NON-COMPLAINT APPEAL BRIEF**

MS Appeal Brief – Patent
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Non-Compliant Appeal Brief dated August 6, 2010, please substitute the following for the non-compliant Summary of Claimed Subject Matter in the brief filed July 23, 2010.

V. SUMMARY OF CLAIMED SUBJECT MATTER

Three independent claims, each defining the invention somewhat differently, are on appeal. The specification references are to the Substitute Specification filed June 23, 2006.

Independent claim 1 is directed to a polyimide film obtained by reacting an aromatic diamine having a benzoxazole structure (page 10, line 26-page 13, line 18) with an aromatic tetracarboxylic acid anhydride. (Page 3, lines 27-28; page 13, line 20-page 15, line 8). This film has a planar orientation coefficient of 0.79-0.89 as measured by an X-ray diffraction method and a dielectric constant of 2.7-3.1 at 100 GHz as measured by a cavity resonance perturbation method. Page 3, lines 29-32; page 4, lines 2-5.

Independent claim 5 is directed to a polyimide film obtained by reacting an aromatic diamine having a benzoxazole structure (page 10, line 26-page 13, line 18) with an aromatic tetracarboxylic acid anhydride (page 13, line 20-page 15, line 8) to produce a polyamide acid solution (page 18, line 22-page 19, line 16), drying the polyamic acid solution to produce a self-supporting green polyamide acid film (page 20, line 35-page 22, line 5), passing the green film through a nitrogen purged continuous type heat treatment furnace to heat the green film to carry out an imidation reaction (page 22, line 8-page 24, line 17) and cooling the produced film to room temperature to give the polyimide film (page 47, lines 13-17). This film is characterized by the property such that the amount of water vaporized from the film during heating at 500°C for 10 sec immediately after the helium purge at 170°C for 7 min and preliminary drying is not more than 5000 ppm (page 4, lines 9-13; page 29, line 26-page 30, line 26).

Independent claim 7 is directed to a polyimide film obtained by reacting an aromatic diamine having a benzoxazole structure (page 10, line 26-page 13, line 18) with an aromatic tetracarboxylic acid anhydride (page 13, line 20-page 15, line 8), wherein the absolute value of the difference between a surface planar orientation degree of one surface (surface A) and a surface planar orientation degree of the other surface (surface B) of the film is 0-2. Page 4, lines 25-30.

In the event that the transmittal letter is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief is required, appellants petition

for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952**, referencing docket no. 358362011300.

Dated: September 1, 2010

Respectfully submitted,



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